

## Fungi 1 - Rhizopus

The basic structural features of fungi are not cells but **hyphae**. Hyphae are microscopic branching threads. Each thread consists of a tube formed from a wall enclosing cytoplasm and a vacuole. The hyphal walls are not made of cellulose but of a substance called **chitin**, an organic nitrogenous compound. The hyphae contain many nuclei distributed throughout the cytoplasm. Sometimes the hyphae are divided into compartments by cross walls.



Diagram of a section of a hypha

(5µ is 5 thousandths of a millimetre)

The fungi do not have chlorophyll so they cannot make their food in the way that plants do. They feed on dead or decaying organic matter and are classed as **saprophytes**. Their hyphae penetrate the dead material and form a branching network called a **mycelium**.

The tips of the growing hyphae produce enzymes which digest the organic material. The soluble products are absorbed into the hyphae.

When mould fungi, such as *Rhizopus*, grow on stale bread or rotting fruit, the mycelium can be seen as a greyish 'fuzz'.



**Rhizopus** is a mould fungus which grows on stale bread or rotting fruit. It reproduces asexually by sending up vertical hyphae, each of which swells at the tip to produce a **sporangium**. The cytoplasm in the sporangium divides repeatedly to produce a mass of **spores**, each with a nucleus. When the sporangium breaks open, the spores are dispersed in the air, and each can grow to form a new mycelium if it lands on suitable material.

There is also a sexual method of reproduction.

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**Peipei Pang**



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## **Table of Contents Section 2the Kingdom Fungi Answer Key**

1. Understanding the eBook Section 2the Kingdom Fungi Answer Key
  - The Rise of Digital Reading Section 2the Kingdom Fungi Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Section 2the Kingdom Fungi Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Section 2the Kingdom Fungi Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Section 2the Kingdom Fungi Answer Key
  - Personalized Recommendations
  - Section 2the Kingdom Fungi Answer Key User Reviews and Ratings
  - Section 2the Kingdom Fungi Answer Key and Bestseller Lists
5. Accessing Section 2the Kingdom Fungi Answer Key Free and Paid eBooks
  - Section 2the Kingdom Fungi Answer Key Public Domain eBooks
  - Section 2the Kingdom Fungi Answer Key eBook Subscription Services
  - Section 2the Kingdom Fungi Answer Key Budget-Friendly Options

6. Navigating Section 2the Kingdom Fungi Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Section 2the Kingdom Fungi Answer Key Compatibility with Devices
  - Section 2the Kingdom Fungi Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section 2the Kingdom Fungi Answer Key
  - Highlighting and Note-Taking Section 2the Kingdom Fungi Answer Key
  - Interactive Elements Section 2the Kingdom Fungi Answer Key
8. Staying Engaged with Section 2the Kingdom Fungi Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section 2the Kingdom Fungi Answer Key
9. Balancing eBooks and Physical Books Section 2the Kingdom Fungi Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section 2the Kingdom Fungi Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Section 2the Kingdom Fungi Answer Key
  - Setting Reading Goals Section 2the Kingdom Fungi Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Section 2the Kingdom Fungi Answer Key
  - Fact-Checking eBook Content of Section 2the Kingdom Fungi Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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